HRODER, D.L., red.; VESELKIN, A.P., red.; YEGOROV, Yu.A., red.; ORLOV, V.V., red.; TSYPIN, S.G., red.; PODOSHVINA, V.A., red.; NIKITINA, T.K., red.; VLASOVA, N.A., tekhm. red.

[Problems in the physics of reactor shielding] Voprosy fiziki zashchity reaktorov; sbornik statei. Moskva, Gosatomizdat, 1963. 345 p. (MIRA 16:12) (Nuclear reactors—Shielding (Radiation))

EWP(j)/EPF(c)/EPF(n)-2/EWT(m)/BDS AFFTC/ASD/SBD Pc-4/

L 12860-63 Pr-4/Pu-4 RM/WW/DM

ACCESSICI NR: AP3003970

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78

AUTHOR: Avayev, V. N.; Vasil'yev, G. A.; Veselkin, A. P.; Yegorov, Yu. A.; Orlov, Yu. V; Pankrat'yev, Yu. V.

TITLE: Reactor neutron flux attenuation in polyethylene

SOURCE: Atomnaya energiya, v. 15, no. 1, 1963, 17-20

TOPIC TAGS: neutron attenuation, polyethylene, polyethylene neutron attenuation, slow neutron, fast neutron, neutron relaxation length, biological shielding, water-water reactor

ABSTRACT: The attenuation of fast and slow neutron fluxes by polyethylene has been investigated experimentally in a <u>water-water research reactor</u>. If A polyethylene 680 x 680 x 1000-mm prism consisting of square plates 10 and 20 mm thick was <u>irradiated</u> by placement in a recess in the heavy concrete shielding of the reactor. The slow neutron fluxes were measured by the use of resonant indicators (indima, iodine) and a BF, counter. The fast neutron distribution was measured by means of threshold indicators P(n,p), Al(n,p), and $Al(n,\alpha)$ and a scintillation counter with ZnS(Ag). During measurements the plane indicators were inserted into gaps between the polyethylene plates, and

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ACCESSION NR: AP3003970

the cylindrical indicators were placed into 20 x 20 x 100-mm holes cut in the plates. The results obtained are shown in Migs. 1 and 2 of the Enclosure, plates. The results obtained by the method of moments for a point neu-

plates. The results obtained are shown in Figs. 1 and 2 of the Enclosure, plates. The results obtained are shown in Figs. 1 and 2 of the Enclosure, along with theoretical data obtained by the method of moments for a point neutron source. A comparison of neutron relaxation length in polyethylene (dentical source) and in water under identical conditions showed that we resity, 0.92 g/cm³) and in water under identical conditions showed that we resity, 0.92 g/cm³) and in water under identical conditions showed that we resit the laxation length in polyethylene is 12-17% shorter than that in water. The laxation length in polyethylene is 12-17% shorter than that in water. The laxation length in polyethylene is 12-17% shorter than that in water who eathers thank the reactor operating personnel and laboratory technicia 3 who took part in the experiment. Orig. art. has: 2 figures and 4 tables.

ASSOCIATION: none

SUBMITTED: 25Aug63

DATE ACQ: 08Aug63

ENCL: 01

SUB CODE: NS

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ACCESSION HR: AP5005802	(5)
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AUTHOR: Vasil'vev, C. A.: Vasalking	A. I. Yagarav, Id. K.
Kucheryaven, ". A. Pankrathery	
Kucheryayen, A.A. Allanda	
a andla	tion by serpentine concrete
TITLE: Attenuation of reactor radia	
1 D a MM T TO THE	2 1065 121-127
SOURCE: Atomnaya energiya, v. 18, n	0. T 1231 151 16
SOURCE: Atomnaya energing,	
- radioting, radi	stion shielding, serpenting con
TOPIC TACK: reactor radiation, radi	otrocs, gamma radiation, reactur
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,	oncrete (density, 2.2 t/m')
ABSTRACT: The shielding characteris	tics of Concident were studied
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noticed in a total cross section of neutron interaction calculated for noticed in a total cross section of neutron interaction calculated serpentine concrete. The results of measuring spectral neutron distribution can be used to obtain data required for multigroup calculation of the spatial distribution of neutrons in the shielding. With tion of the spatial distribution of neutrons in the shielding that alteristics of the serpentine concrete investigated are so what better than those of limite concrete; with respect to games rave, they are the same. Since the chemorete; with respect to games rave, they are the same. Since the chemotrete; with respect to games rave, they are the same. Since the chemotrete; with respect to games rave, they are the same. Since the chemotrete; with respect to games rave, they are the same. Since the chemotrete; with respect to games rave, they are the same. Since the chemotrete; with respect to games rave, they are the same. Since the chemotrete; with respect to games rave, they are the same. Since the chemotrete; with respect to games rave, they are the same. Since the chemotrete; with respect to games rave, they are the same. Since the chemotrete; with respect to games rave, they are the same. Since the chemotrete; with respect to games rave, and are the same of limiting the same of th

ASSOCIATION: none

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r 11129-63 Pc-4/Pu-4 RM/DM

ACCESSION NR: AP3003971

8/0089/63/015/001/0020/0022

AUTHOR: Aveyev, V. N.; Vasil'yev, G. A.; Veselkin, A. P.; Yegorov, Yu. A.; Orlov, Yu. V.; Pankrat'yev, Yu. V.

TITLE: Spectra of reactor fast neutrons passed through polyethylene

SOURCE: Atomnaya energiya, v. 15, no. 1, 1963, 20-22

TOPIC TAGS: fast neutron spectra, polyethylene, reactor shielding

ABSTRACT: Measurements were made of the spectime of fast neutrons after pessage through a layer of polyethylene plates (680 x 680 x 10 mm) installed in a recess of the shielding of a water-water reactor. The thickness of the polyethylene layer was increased on the side facing of the spectrometer detectors. The measurements were made by means of a fast-neutron spectrometer with a single detector in which Y-background discrimination was achieved by means of a space charge between the last dynode and anode of the photomultiplier. The fastneutron spectra were determined from the amplitude distribution of pulses produced by recoil protons in the stilbene crystal of the detector. The spectra were corrected for the effect of secondary neutron scattering in the crystal and for partial leakage of recoil protons from the crystal. The results obtained

L 11129-63 ACCESSION NR: AP3003971

are shown in Fig. 1 of the Enclosure along with the results calculated by the method of moments (shown by the solid line). The measured spectra were found to be in good agreement with theoretical results for all thicknesses of the polyethylene layer at E_n > May. At E_n < May a divergence between the experimental and calculated results was noted. However, the tendency for a change in spectra with an increase in layer thickness in this energy range was the same for both calculated and experimental spectra. At neutron energies from 3 to 4 May and polyethylene thicknesses greater than 20 g/cm², the curve of the measured spectra showed a sharper dip than that of the calculated spectra. This is probably due to some inaccuracy in selecting or averaging the cross sections during calculation. The sharper dip in the curve was also noted in neutron spectra measured in water. "The authors thank their coworkers who serviced the reactor and laboratory assistants who assisted in the carrying out of experiments." Orig. art. has: 1 figure.

ASSOCIATION: none

SUBVITTED: 25Aug62

DATE ACQ: 03Aug63

ENCL: Ol

SUB CODE: NS

NO REF SOV: 003

OTHER: 002

8/0283/64/000/003/0011/0011 ACCESSION WR: AR4036006 SOURCE: Ref. Zh. Yaderny*ye reaktory*. Otdel'ny*y vy*pusk, Abs. 3.50.51 AUTHOR: Aveyer, V. N.; Vasil'yev, G. A.; Veselkin, A. P.; Yegorov, Yu. A.; Zhirnov, A. D.; Kucheryayev, V. A.; Orlov, Yu. V.; Panov, Ye. A.; Pankratiyev, Yu. V. TITLE: Shielding properties of certain types of concrete CITED SOURCE: Sb. Vopr, fiz. sashohity* reaktorov. M., Gosatomisdat, 1963, 198-198 TOPIC TAGS: radiation, concrete, neutron, gamma radiation, shielding, shield, radiation shielding, radiation shield, coment TRANSLATION: Investigations that were conducted showed that heavy concrete gives more effective protection against neutrons and gamma-radiation. The addition of magnesium to the concrete somewhat increases the shielding properties as compared to concrete of Portland cement in the same density. The introduction of Boron com-pounds into the concrete greatly reduces the flow of thermal neutrons. ENCL SUB CODE: NP DATE ACQ: 17Apr64 Card 1/1

8/0000/63/000/000/0229/0234

ACCESSION NR: AT4019056

AUTHOR: Veselkin, A. P.; Yegoro', Yu. A.; Panov, Ye. A.

TITLE: The passage of Gamma-radiation through a flat slit in shielding

SOURCE: Voprosy* fiziki zashchity* reaktorov; sbornik statey (Problems in physics of reactor shielding; collection of articles). Moscow, Gosatomizdat, 1963, 229-234

TOPIC TAGS: nuclear reactor, reactor shielding, Gamma ray propagation, Gamma ray attenuation, radiation shielding, shielding structure, lead shielding, steel shielding, plexiglass shielding

ABSTRACT: The authors studied the weakening effects exerted on radiation shielding by slits and discontinuities (heterogeneities), noting that existing formulas and techniques for computing the passage of radiation through slits and vacuums are applicable only if certain accepted limitations are fulfilled and in no case encompass the entire variety of possible slit and vacuum forms. As a source of y-radiation a linear isotropic Co80 source was employed, which was simulated by the forward movement of an isotropic point source (See Fig. 1. in the Enclosure). The dose was measured by a scintillation y-dosimeter. During

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the experiment, the dose intensity was measured over a length of 160 mm along the shielding in a direction perpendicular to the slit. The authors investigated the dependence of the dose intensity behind a slitted shielding on the properties of the material used to fill the slit as well as on the properties of the materials of the shielding itself. As shielding materials, lead and steel were selected, while steel, titanium, aluminum, carbon (graphite with a density of 1.65 g/cm³) and organic glass (plexiglass) were used to fill the slit. In all measurements, the thickness of the shielding was 120 mm and the height of the slit - 20 mm. As expected, the intensity of the dose behind the shielding rises sharply as the specific gravity of the material filling the slit decreases. Thus, for example, when steel is replaced by aluminum, the dosage intensity opposite the center of the slit increases by a factor of 6.5. Explanations for this fact are advanced, and the concept of the specific dose (that is, the dose per unit where Dg is the integral value of the dose of length behind the shielding

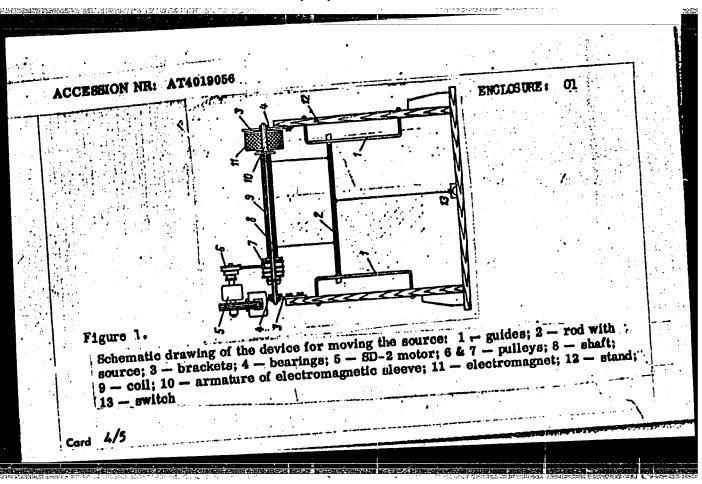
gamma-radiation behind a slotted shielding; and his the distance along the shielding within which the dose was measured) is introduced in order to shed light on certain observed laws. A graph is presented which shows a comparison of the degrees of weakening for different

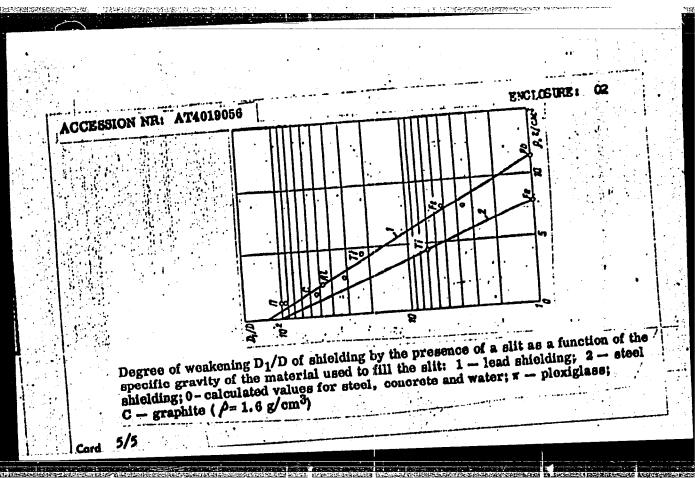
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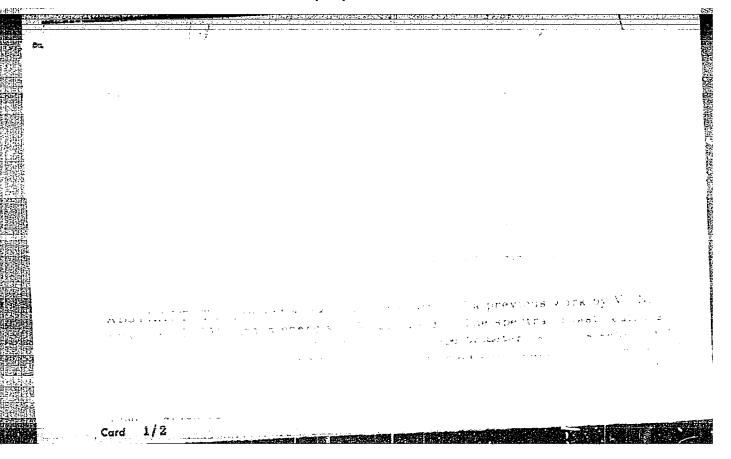
materials used to fill the slit (See Fig. 2. in the Enclosure). The ordinate shows the ratio D_/D (D is the specific dosage behind a continuous or unbroken shielding), while the density of the material filling the slit (g/cm³) is indicated along the shscissa. The result permits a of the material filling the slit (g/cm³) is indicated along the shscissa. The result permits a continuous of the degree to which the shielding is weakened by the presence of a slit determination of the degree to which the shielding is weakened by the presence of a slit elementary of the degree to which the shielding is weakened by the presence of a slit elementary of the degree to which the shielding is weakened by the presence of a slit elementary of the material, provided the dosage behind a continuous (unbroken) shielding (or behind filled by any material, provided the dosage behind a continuous (unbroken) shielding (or behind filled by any material, provided the dosage behind a continuous (unbroken) shielding (or behind filled by any material, provided the dosage behind a continuous (unbroken) shielding (or behind filled by any material, provided the dosage behind a continuous (unbroken) shielding (or behind filled by any material) as indicated along the sheet shielding is weakened by the presence of a slit end of the sheet shielding is weakened by the presence of a slit end of the sheet shielding is weakened by the presence of a slit end of the sheet shielding is weakened by the presence of a slit end of the sheet shielding is weakened by the presence of a slit end of the sheet shielding is weakened by the presence of a slit end of the sheet shielding is weakened by the presence of a slit end of the sheet shielding is weakened by the presence of a slit end of the sheet shielding is weakened by the presence of a slit end of the sheet shielding is end of the sheet shielding is weakened by the sheet shielding is end of t

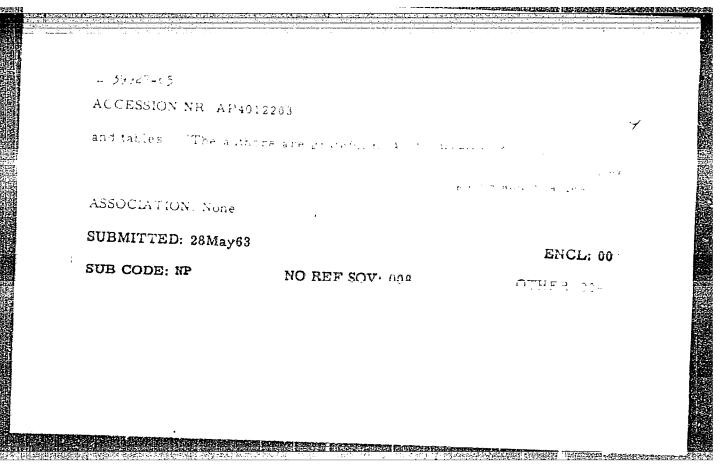




 HRODER, Dmitriy Leonidovich, doktor fiz.-mat. nauk; POPKOV,
Konstantin Konstantinovich; RUBANOV, Stanislav
Mikhaylovich; GLADKOV, G.A., kand. fiz.-mat. nauk,
retsenzent; VESELKIN, A.P., kand. fiz.-mat. nauk,
retsenzent; YEGOROV, Yu.A., kand. fiz.-mat.nauk,
retsenzent; POLOGIKH, B.G., kand. fiz.-mat. nauk,
retsenzent; VLASOVA, Z.V., red.; CHISTYAKOVA, R.K.,
tekhn. red.

[Biological shielding for ship reactors] Biologicheskaia zashchita sudovykh reaktorov. Leningrad, Izd-vo "Sudostroenie," 1964. 410 p. (MIRA 17:4)





VASIL'YEV, G.A.; VESELKIN, A.F.; YEGOROV, Yu.A.; KUCHERYAYEV, V.A.;
PANKRAT'YEV, Yu.V.

Attenuation of reactor radiations by serpentine concrete. Atom. energ. 18 no.2:121-127 F 165. (MIRA 18:3)

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L 13691-66 EVT(m) IJP(c) JD/WB/JR ACC NR: AP6021626 SOURCE CODE: UR/0089/66/020/003/0247/0252	
54	I
AUTHOR: Veselkin, A. P.; Shakh, O. Ya.	
ORG: none	
TITLE: Effect of the cleaning system on the accumulation of active corrosion	
products in pressurized water reactors	
SOURCE: Atomnaya energiya, v. 20, no. 3, 1966, 247-252	
TOPIC TAGS: pressurized water reactor, reactor corrogion, corrosion product, reactor cleaning, corrosion control, CORROSION, NUCLEAR REACTOR TECHNOLOGY	
ABSTRACT: Processes of formation, accumulation, and transfer are discussed for abstract: Processes of formation, accumulation, and transfer are discussed for abstract: Processes of formation, accumulation, and transfer are discussed for abstract: Processes of formation, accumulation, and transfer are discussed for abstract: Processes of formation, accumulation, and transfer are discussed for abstract: Processes of formation, accumulation, and transfer are discussed for abstract: Processes of formation, accumulation, and transfer are discussed for abstract: Processes of formation, accumulation, and transfer are discussed for abstraction accumulation accumulation and transfer are discussed for accumulation accumu	
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1,6	ACC NR: AT6027929 SOURCE CODE: UR/UUUU/60/000/000/000/000/000/000/000/000
	ORG: None TITLE: Energy distribution of neutron dose rate in various shielding materials and compositions SOURCE: Voprosy fiziki zashchity reaktorov (Problems in physics of reactor shielding); sbornik statey, no. 2. Moscow, Atomizdat, 1966, 141-149 TOPIC TAGS: radiation dosimetry, reactor shielding, neutron spectrum, neutron cross
	ABSTRACT: A method is proposed for calculating dose rate from the entire neutron spectrum based on the use of three familiar ideas from the theory of ionizing radiation spectrum based on the use of three familiar ideas from the theory of ionizing radiation spectrum based on the use of three familiar ideas from the multigroup method for penetration through matter: the removal cross section method, the multigroup method for penetration of the kinetic neutron transfer equation in the age-diffusion similar in and the concept of the "dosage accumulation factor" for neutron radiation similar in form to the corresponding concept for \gamma-quanta. The method is applicable only within form to the corresponding concept for \gamma-quanta. The method and five-group calculation of limitations imposed by the removal cross section method and five-group calculation of limitations imposed by the removal cross section method and five-group calculation of limitations imposed by the removal cross section method and five-group calculation of limitations imposed by the removal cross section method. It is shown that the introneutron distribution in the age-diffusion approximation. It is shown that the introneutron distribution in the age-diffusion approximation.
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L 04596-67 EWT(m)/EWP(t)/ETI IJF(c) JD/HW/JG/WB/JR SOURCE CODE: UR/0089/66/021/003/0184/0189	
ACC NR: AP6032402	
AUTHOR: Veselkin, A. P.; Nikitin, A. V.	.
ORG: none	
TITLE: Activation of corrosion products in nuclear reactors	-
SOURCE: Atomnaya energiya, v. 21, no. 3, 1966, 184-189	
TOPIC TAGS: nuclear reactor, nuclear debris, corrosion, water cooked reactor, nuclear debris, nuclear debris, corrosion, water cooked reactor, nuclear debris, nu	
ABSTRACT: A study was made of the activation of corrosion products and their mass transport in pressurized and boiling water reactors. A mathematical model of the cortransport in pressurized and boiling water reactors included a solution of a transport in pressurized and the mass transfer of corrosion products included a solution rosion reactions and the mass transfer of corrosion products and an approximate solution rosion reactions and the mass transfer equations for the steady state case and an approximate solution system of mass transfer equations for the steady state case and an approximate solution system of mass transfer equations for the steady state case and an approximate solution are given	
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AP7002163 ACC NRI

SOURCE CODE:

UR/0089/66/021/006/0462/0465

AUTHOR: Veselkin, A. P.; Shakh, O. Ya.

ORG: none

TITLE: Influence of the material lining of a reactor loop on the activity of the corrosive deposits

SOURCE: Atomnaya energiya, v. 21, no. 6, 1966, 462-465

TOPIC TAGS: nuclear reactor material, corrosion, radiation damage, radiation protection, surface active agent, mathematic model, stainless steel

ABSTRACT: This is a continuation of earlier work (Atomnaya energiya v. 21, 462, 1966), where a solution was obtained for the system of equations describing the formation and accumulation of activity in a primary reactor loop, the activity being due to corrosion products. In the present article, the mathematical model proposed in the earlier work is used to consider certain problems in radiation safety, connected with corrosion and activation of structural materials. By solving the system of equations with the aid of a computer under certain assumptions regarding the precipitation constant and washout process (these constants were defined in the earlier paper) it is shown that the influence of the surface material of the primary loop on the formation of active-surface deposits must be taken into account in all safety calculations. The validity of the mathematical model is checked against experimental results and is found to be adequate. It is recommended, in order to improve the

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producing long-1 surfaces in the	that the steel employed ived isotopes. The recommactive zone, and carbon stee stainless steel shoull rs thank L. I. Korzhenevskations. Orig. art. has:	be used for	the water pi	side the act ping in the for help wit	primary
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W. L. 1887 EPF(n)-2/EWT(m)/ETC(f)/EWG(m)TR/0089/65/019/004/0354/0359 SOURCE CODE: ACC NR. AP5026441 AUTHOR: Vasil'yev, G. A.; Veselkin, A. P.; Yegorov, Moiseyev, G. G.; Pankrat yev, Yu. V. ORG: None TITIE: Attenuation of pile radiation in serpentinite sand SOURCE: Atomnaya energiya, v. 19, no. 4, 1965, 354-359 TOPIC TAGS: nuclear reactor material, nuclear reactor shield The use of serpentine rock for biological shielding is discussed. This mineral is found widely distributed in the Urals, Caucasus Siberia and Kazakhstan, usually associated with asbestos deposits such as the Bazhenov quarries where pure serpentinite monoliths of about 1 cu m were excavated. Its bound water is liberated only at temperatures exceeding 450° C. Thus it can be used as a heat-resisting material for biological shielding. The concentration of hydrogen nuclei in serpentite being about 1.5% by weight, is quite sufficient for insuring the attenuation of fluxes composed of intermediate and fast neutrons. The density of monolithic serpentinite is about 2.6 ton/cu m while the thermal conductivity varies between 2.16 and 2.56 kcal/m.hr. C. This material could be easily but. The compression strength of blocks made of serpenmo: Card

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tinite reaches 600 kg/sq cm. The shielding properties of serpentinite fine sand (from Bazhenov deposits) were tested in a water-cooled and water-moderated research reactor. The boxes filled with sand were placed close to the core vessel. The maximum thickness was about 180 cm The sand density was 1.62 ton/cu m. The chemical composition given in a table shows that the serpentite sand includes 38.83% of SiO2 and 37.39% of MgO. The investigations were carried out assumming "semi-infinite" and "energy barrier" geometry. The method of induced activity was used for determining the neutron flux attenuation, while the gamma dose rate was measured by means of a scintillation dosimeter. The macroscopic cross-section for fast neutrons in sand was calculated as 0.0602 om-1 of which 45% was due to oxygen and 21% to hydrogen. The variations of cross sections in serpentite and its main components for different levels of fast neutron energy was shown in a graph. The peaks and dips in curves reflected the dependence of cross-sections upon the presence of oxygen. The attenuation of fast neutrons calculated on the basis of threshold measurements is also graphically illustrated. From these graphs and a table, it follows that the relaxation of neutron in serpentite sand is the same as in boron carbide. The protective properties of serpentite monolithical blocks are considerably higher than those of iron ore concentrates and only slightly better than those of serpentinous concrete. The spectra of fast neutrons were also determined and the

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energy distributions at 0, 30, 60, 100 and 140-cm thickness were plotted for various values of neutron flux. The greatest changes were observed for energy levels from 3 to 8 Mev. The relaxation length varies from 14.9 to 17 cm. The flux attenuation for thermal and epithermal neutrons was also investigated. A certain accumulation of neutrons was observed at small serpentite thicknesses. The relaxation was about 15.2 cm. This length is smaller than that (about 20 cm) obtained for iron ore concentrates. The attenuation of dose rates of fast and intermediate neutrons was the same for tested layer thicknesses. The dose relaxation was 15.2 cm. The gamma dose attenuation was 22 cm for a serpentite layer of 270 g/sq cm. The experiments showed that the serpentite sand is as good as the boron carbide. In conclusion, it was stated that the serpentite is not as good as the iron ore concentrate, although the monolithic serpentite has a lower relaxation length. The serpentite shielding properties could be improved by using a mixture consisting of 25% of serpentite and 75% of iron. The full neutron dose relaxation will be about 9 cm. ORIG. art. has: 4 tables and 5 graphs.

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ACC NR: AP7002169

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SOURCE CODE: UR/0089/66/021/006/0509/0511

AUTHOR: Veselkin, A. P.; Nikitin, A. V.; Orlov, Yu. V.

ORG: none

TITLE: Investigations with the radiation loop of a water-water reactor

SOURCE: Atomnaya energiya, v. 21, no. 6, 1966, 509-511

TOPIC TAGS: water cooled nuclear reactor, reactor neutron flux, gamma flux, irradiation apparatus, radioactive source

ABSTRACT: The authors describe a test made to explain the possibilities of research with a water-water reactor, aimed at eliminating the undesirable presence of a wide range of mixed radiation with a wide energy spectrum. To this end, the water-water reactor was equipped with a radiation loop with a set of emitters of different geometric shape. The emitters were produced by passing high-purity water through the reactor, and using the irradiated water as a secondary source of radiation. The particular investigation was carried out with a source in the form of 8 mm tubing wound to make a disc of outside diameter 470 mm and inside diameter 30 mm. Measurements were made of the distribution of the γ quantum energy and of the radioactivity as functions of the distance to this type of source, and other source parameters are calculated. The radiation loop was also used to measure the relative concentration of the chemical forms of N¹⁶ produced in the water passing through the reactor. The loop is being reconstructed to increase its intensity. The authors thank A. V. Zhenikhova for sys-

Cord 1/2

UDC: 621.039.573

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Co	_{rd} 2/	'2 '							

VESELKIN, G.A., abarahiy nauthryy notradnik

Extermination of flies on livestock farms. Veterinarita 41 no.5:106.109 We '64. (MIRA 18:6)

1. Tyumenskiy opornyy punkt Vsesoyuznogo nauchno-issledovateliskogo instituta veterinarnoy sanitarii.

VESELKIN, N.P.

Localization of electric responses to the photic stimulation of the eye in the brain of lampreys. Fiziol. zhur. 49 no.2: 181-185 F*64 (MIRA 17:3)

1. Laboratoriya sravnitel'noy fiziologii tsentral'noy nerwnoy sistemy Instituta evolyutsionnoy fiziologii imeni Sachenova, Leningrad.

17(1) AUTHOR:

Veselkin, N. P.

sov/20-124-3-65/67

TITLE:

Effect of the Unilateral Removal of the Upper Cervical Sympathetic Ganglion on the Electric Activity of the Cerebellum in Pigeons (Vliyaniye odnostoronnego udaleniya verkhnego sheynogo simpaticheskogo uzla na elektricheskuyu aktivnost' mozzhechka u golubey)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 3, pp 723-725 (USSR)

ABSTRACT:

Certain common functional relations between the ganglion mentioned in the title and the cerebellum have been established on several occasions (Refs 5,8,11, et al.). The body of facts that have accumulated have enabled L. A. Orbeli to establish his theory of the ring-like interrelations between the above-mentioned sections of the nervous system; it is one of the integral parts of the theory of the adaptation-trophic function of the sympathetic nervous system and the cerebellum. The author carried out his experiments with 8 pigeons. They were conducted 2 - 3 days after the operation mentioned in the title. Figure 1 shows a cerebellogram of an intact pigeon. In figure 1 b, the changes emerging after unilateral sympathectomy are clearly visible. Contrary to the changes in the electrogram of the hemispherical cortex, the amplitudes of the fast oscillations fall by about the twofold (to 25mkv)

Card 1/2

SOV/20-124-3-65/67

Effect of the Unilateral Removal of the Upper Cervical Sympathetic Ganglion on the Electric Activity of the Cerebellum in Pigeons

and slow oscillations of 8 - 10 - 30 times/sec with amplitudes of 100 mky emerge. From the above observations it can be concluded that the sympathetic system considerably affects the electric activity of the cerebellum. As a change in the blood circulation is out of the question after an extirpation of the sympathetic nerve, the above mentioned effect on the sympathetic system can be brought into relation with the adaptation-trophic function of the latter. The peculiarities, recorded in this process, of the said changes in pigeons may perhaps be connected with the degree of the phylogenetic development of their nervous activity.-There are 2 figures and 17 references, 13 of which are Soviet.

ASSOCIATION:

Institut evolyutsionnoy fiziologii im. I. M. Sechenova Akademii nauk SSSR (Institute of Evolutionary Physiology imeni I. M.

Sechenov of the Academy of Sciences, USSR)

PRESENTED:

October 1, 1958, by L. A. Orbeli, Academician

SUBMITTED:

September 24, 1958

Card 2/2

8185

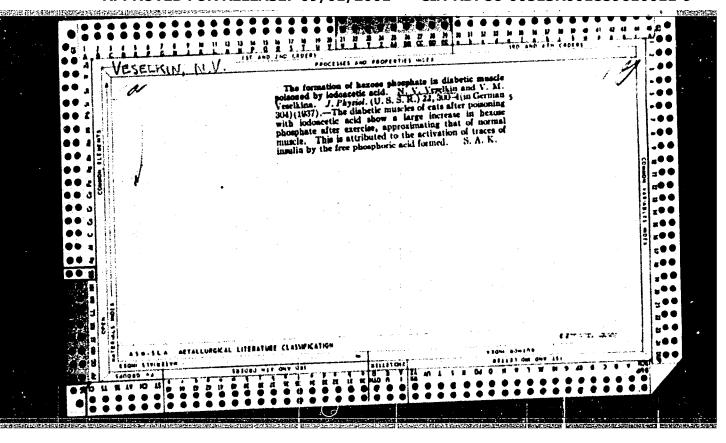
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	KARANYAN, A.I., KOSAREVA, A.A., GRIGORYAN, R.A., YESELKIN, N.P.	
		*
	"Functional and morphological evolution of cortico-cerebellar interrelations."	
	VIII	
		• :
	Report submitted, but not presented at the 22nd International	
	Congress of Physiological Sciences	
	Leiden, the Netherlands 10-17 Sep 1962	
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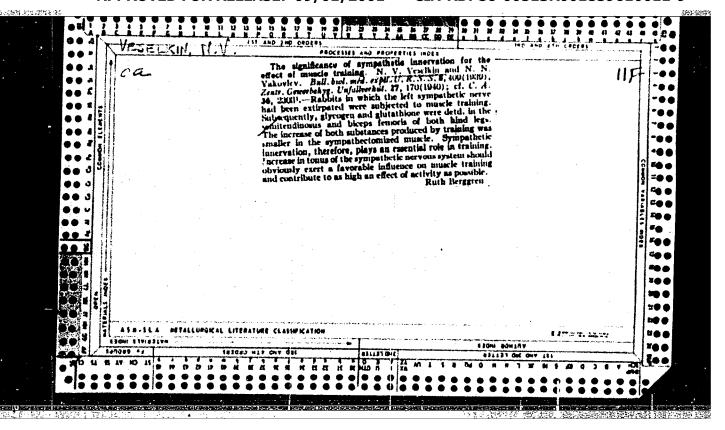
VESELKIN, N.P.

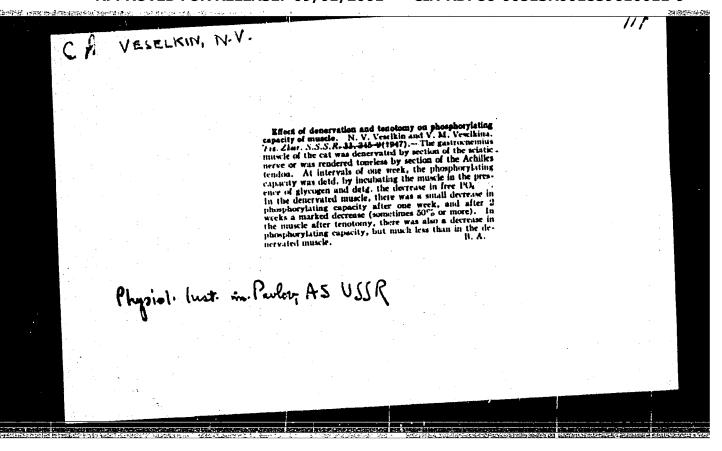
Electrical responses of the brain to photic stimulation in skates. Fiziol. zhur. 40 no.3:268-271 Mr '64. (MIRA 18:1)

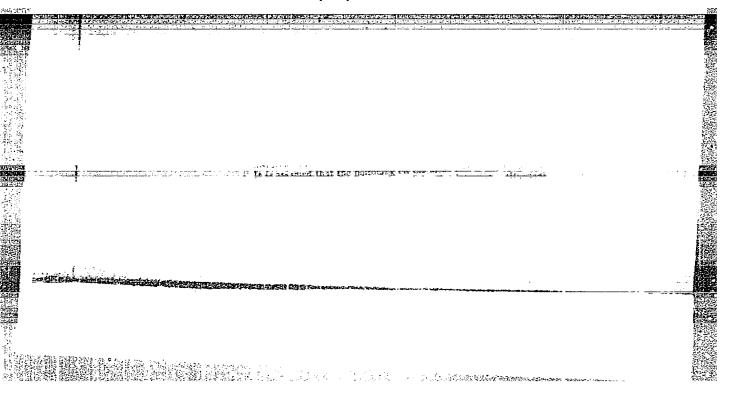
1. Laboratoriya sravnitel'noy fiziologii tsentral'noy nervnoy sistemy Instituta evolutsionnoy fiziologii imeni I.M. Sechenova AN SSSR, Leningrad.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859610011-9"









VESELKIN, N.V.

USSR/Medicine - Pathophysiology

FD-2559

Card 1/1

Pub. 17-12/23

Author

: Veselkin, N. V.; Gordon, V. G.

Title

THE PROPERTY OF THE PARTY AND : Some aspects of metabolism in dogs with Eck-Pavlovian fistula during use of a group of remedies for the purpose of prevention or elimination of the symptoms of poisoning

Periodical

: Byul. eksp. biol. i med. 5, 43-45, May 1955

Abstract

: Investigated the prophylactic and curative effect of glucose, sodium bromide, and phosphoric acid on food poisoning in dogs with Eck-Pavlovian fistula. Two references, USSR, since 1940.

Submitted

AT END THE PERSON TO THE PERS

Institution : Laboratory of the Biochemistry of Nutrition and Digestion (Head -Prof. A. M. Petrun'kina) of the Institute of Physiology imeni I. P. Pavlov (Director - Academician K. M. Bykov) of the Academy of Sciences USSR, Leningrad

: February 18, 1954 by Academician K. M. Bykov.

USSR / Human and Animal Physiology (Normal and Pathological). Blood. Blood Pressure. Hypertonia T

Abs Jour: Ref Zhur-Biologiya, No 21, 1958, 97574

: Veselkin, N. V., Il'in, V. S. Author

Inst : Not given

: Synthesis of Ethero-Sulfuric Acids in an Organism Title

After Denervation of the Liver

Orig Pub: V Sb.: Materialy po evolyuts. fiziologii, T. I. M.-L., AN SSSR, 1956, 85-90

Abstract: No abstract

Card 1/1

41

VESELKIN, N.V.; DAUDOVA, G.M.; IL'IN, V.S.

Method of etermining the ability of tissues to synthesize reducing phosphorus organic compounds. Mat.po evol. fiziol. 1:76-78 '56.

(PHOSPHORUS ORGANIC COMPOUNDS)

(MIRA 11:1)

(TISSUE CULTURE)

VESSIKIN, H.V.; ILVIN, V.S.

Synthesis of ethereal sulfuric scids in the organism following liver denervation. Mat. po evol.fiziol. 1:85-90 '56. (NIRA 11:1)

(LIVER--INDERVATION) (ETHEREAL SULFATES)

USSR/Human and Animal Physiology - Liver.

8-v

Abs Jour

: Ref Zhur - Biol., No 1, 1958, 4138

Author

: N. Vyesyelkin, Bl Gordon

Inst

Title

Central Nervous System Intoxication in Cases of Disturbed

Activity of the Liver.

Orig Pub

: Vopr. med. khim.i, 1956, 2, No 5, 350-356

Abstract

In 4 dogs with Ekk-Pavlof fistulas and gastric fistulas, one studied the role of putrification processes in the intestine in the development of intoxication of the central nervous system (CNS). Dogs tolerated a milk diet better than a meat diet. In some cases, when blood NH3 was high, there were no manifestations of intoxication. Addition of kefir to a milk diet did not prevent the /intoxication/ which was usually taking place after a meat diet. Addition to meat of biomycin or syntomycin with phtalazol slowed down the development of the:

Card 1/2

USSR/Human and Animal Physiology - Liver.

v-8

Abs Jour

: Ref Zhur - Biol., No 1, 1958, 4138

intoxication. The amount of ether-sulfuric acids in urine was lower after the addition of biomycin to a milk-brand diet, and of syntomycin to a meat diet. It is probable that, under conditions of a disturbed liver-barrier, not only NH₃ but also products of the putrification of proteins in the intestine have a to-xic effect upon the CNS.

Card 2/2

VESELKIN, N.V.; GORDON, B.G.

Some characteristics of metabolism in dogs with an Eck-Pavlov fistula in poisoning of the central nervous system. Trudy Inst.fiziol. 5:

(MCPA 10-1)

1. Iaboratoriya biokhimii pitaniya i pishchevareniya. Zaveduyushchiy A.M.Petrun'kina. (NERVOUS SYSTEM)

VESELKIN, N.V.; GORDON, B.G.

ing the second contract of the second contrac

Use of glutamic acid to prevent amnonia intexication in dogs following Mck-Pavlev fistulization. Dekl.AN SSSR 107 no.2:333-336 Mr *56. (MIRA 9:7)

1. Institut fizielegii imeni I.P.Pavleva Akademii mauk SSSR. Predstavleme akademikem K.M.Bykevym.
(PORTAL VEIN) (VENA CAVA) (GIUTAMIC ACID)

THE SECOND REPORT OF THE PROPERTY OF THE PROPE

	ilip,	Judge of glutamic acid for prevention of annuous poisoning in dogs with Eck Pavlov feetuls. N. V. Viselkin and B. C. Corthon. Diklady Akad. Nauk N.N.S.P. 107, 223 (7.1950). —Introduction of glutamic acid into dogs previous to administration of NH ₁ Cl prevents the NH ₂ poisoning which develops otherwise. The NH ₂ and glutamine curves to the blood are shown for typical cypts. C. M. Kroodagoff.									
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VESEIKIN, N.V.; DAUDOVA, G.M.; IL'IN, V.S.

Acid-soluble phosphorus fractions in the namery glands of rabbits and the activity of glands in synthesizing reducing phosphorus organic compounds. Mat.po evol. fiziol. 1:79-84 '57. (MIRA 11:1)

(MANMARY GLANDS) (PHOSPHORUS ORGANIC COMPOUNDS)

共和國國際的對於自然的自然的自然的自然的自然。

VESELKIN, N.V.; GORDON, B.G.

Variation in nitrogen metabolism in the brain in cases of liver disorders. Trudy Inst.fixiol. 8:520-525 159. (MIRA 13:5)

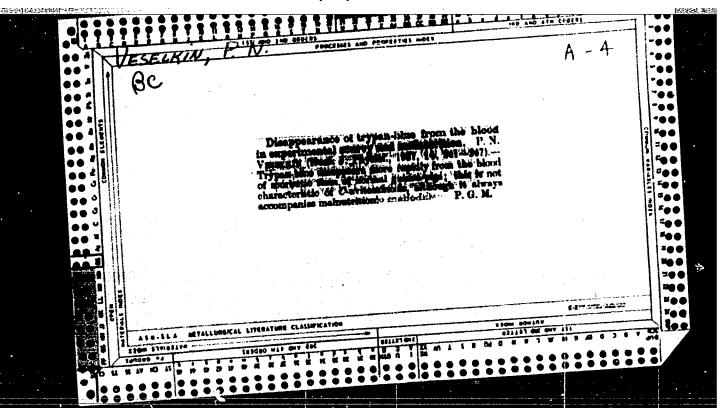
1. Laboratoriya biokhimii nervnoy sistemy (maveduyushchiy - G.Ye. Vladimirov) Instituta fiziologii im. I.P. Paylova AN SSSR.
(NITROGEN METABOLISM) (BRAIN)
(LIVER--DISHASES)

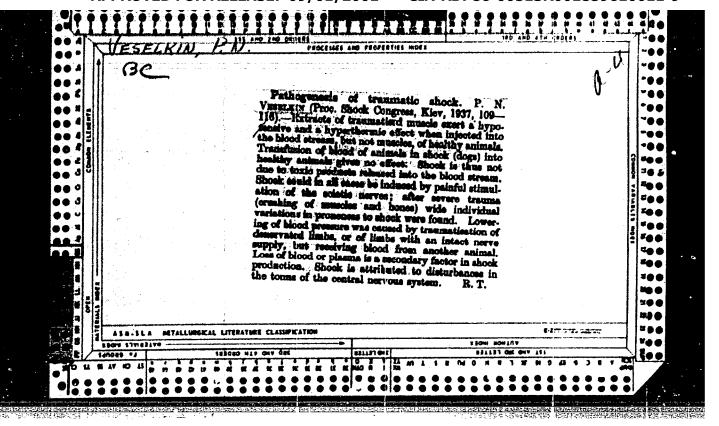
Changes in the cerebral ammonia and glutamine content in animals following surgical disturbance of liver function. Biul. eksp. biol. i med. 47 no.3: 34-38 Mr '59. (MIRL 12:7)

1. Iz laboratorii biokhimii tsentral'noy nervnoy sistemy (zav. - chlenkorrespondent AMN SSSR G.Ye. Vladimirov) Instituta fiziologii imeni I.P. Pavlova Akademii nauk SSSR, Leningrad. Predstavlena deysty. chlenom AMN

SSSR V. N. Chernigovskim.

(LIVER, physicl.
eff. of exper. lesions on brain ammonia & glutamine (Rus))
(BRAIN, metab.
ammonia & glutamine, eff. of exper. liver lesions (Rus))
(GLUTAMINE, metab.
brain, eff. of exper. liver lesions (Rus))
(AMMONIA, metab.
same)





VESELKIN, P.

Discussion on N. A. Shtakelberg's article "Development of febrile reactions in animals in administration of pyrogens into various localizations". Fiziol. zh. SSSR 38 no.3:391-394 May-June 1952.

(CIML 23:2)

VESELKIN, P.N.

Present state of fever. Arkh. pat., Moskva 14 no.4:3-20 July-Aug 1952. (CIML 23:2)

1. Corresponding Member of the Academy of Medical Sciences USSR. 2. Of the Department of General Pathology at State Institute for the Advanced Training of Physicians imeni S. M. Kirov and of the Department of General Pathology of the Institute of Experimental Medicine of the Academy of Medical Sciences USSR.

VESELKIN, P., Prof.

Shtakel berg, N. A.

To the editor of the "Physiological Journal of the U.S.S.R."; concerning N.A. Shtakel'berg's article "Chills and fever reaction in animals to pyrogenic substances depending upon the site of their introduction into the organism." Fiziol.zhur. 38, No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED.

VESELKIN, P.N. (Leningrad).

· 1975年 1985年 1

Historical evaluation of Russian pathology in the seventies and eighties; more about F.R.Borodulin's "historical concept" and the "fight" of Russian pathology with S.P.Botkin. Fiziol.zhur. 39 no.5:662-672 S-0 '53.

(MIRA 6:10)

(Pathology) (Borodulin, I.R.) (Botkin, Sergei Petrovich, 1832-1889)

 Weselkin, P.N. (Leningrad)

More about the principles of Pavlov's physiology in the reconstruction of the theory of respiration regulation. Fisiol.shur. 39 no.6:742-754 H-D '53.

(MLRA 6:12)

(Respiration) (Veselkin, P.H.)

HIELKING PAY

USSR/General Problems of Pathology - Pathophysiology of

Infectious Process.

Abs Jour

: Ref Zhur - Biol., No 3, 1958, 12616

Author

: Veselkin, P.N.

Inst

: Not given

Title

: A Study of the Mechanism of Development of the Fever Reaction and Its Significance in the Pathogenesis of

Infectious Process and Therapy.

Orig Pub

: V sb.: Yezhegodnik. In-t eksperim. med. Akad. med. nauk

T-4

SSSR, 1955, L., 1956, 121-127.

Abstract

: No abstract.

Card 1/1



"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610011-9

FD-2711

USSR/Medicine - physiology

Card 1/1

Pub. 33-20/28

Author

: Veselkin, P. N.

Title

: A simple modification of a device for momentary determinations of

oxygen consumption in small animals

Periodical

: Fiziol. zhur. 41, 108-112, Jan-Feb 1955

Abstract

: Describes a modification of a closed-type apparatus for momentary determinations of oxygen consumption in small animals at 5- to 22minute intervals. Lists as co-workers: N. A. Ehtakel'berg, Ye. S. Zykinov, L. I. Gorbatsevich, G. M. Murav'yeva, N. A. Volokhovoy, and L. I. Dvinyaninova. Also states the author used the initial modification at the Chair of General Pathology of the Military

Medical Academy in 1946. Diagram; photographs; graph.

Institution

: Department of Pathology, Institute of Experimental Medicine,

Academy of Medical Sciences USSR, Leningrad

Submitted

: February 5, 1953

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859610011-9"

VESTLYIN P. Naprofessor; ABRAKOV, L.V., redaktor; KHARASH, G.A., tekhnicheskiy redaktor.

[Physiological mechanisms of fever reaction; collection of works of the Department of General Pathology of the Academy of Medical Sciences and the Department of General Pathology of the Leningred Kirov State Institute of Advance Training for Physicians] Pisiologicheskie mekhanismy likhoradochmoi reaktsii; sbornik rabot Otdela obshchei patologii IMM AMM SSSR i Kafedry obshchei patologii Leningradskogo GIDUV im.S.M. Kirova.Pod red.P.N. Veselkina. [Leningrad] Gos.isd-vo med.lit-ry. Leningradskogo otd-nie, 1957. 353 P. (MIRA 16:4)

1. Akademiya meditsinskikh nauk SSSR, Moscow. Institut eksperimentalinoy meditsiny. Otdel obshchey patologii. 2. Chlen-korrespondent Akademii Meditalinskikh Nauk SSSR(for Veselkin).

(YEVER)

VESELKIN, P.N.

U.S.S.R. / Human and Animal Physiology. Thermoregu-

lation.

Abs Jour: Ref Zhur-Biol., No 5, 1958, 22019.

: Vestelkin P. N. Author

Inst : Not given.

: Mechanism of Febrile Reaction. Preliminary Title

Methods of Study.

Orig Pub: Fisiol. mekhanismy likoradochn reakcii, L., Medgiz 1957, 9-13.

Abstract: No abstract.

Card 1/1

30

VESELKIN, P.N.

U.S.S.R. / Human and Animal Physiology. Thermoreg-

ulation.

Abs Jour: Ref Zhur-Biol., No 5, 1958, 22020.

Author : Vestelkin P. N.

Inst : Not given. : Physiological Mechanisms of Febrile Reaction. Title

Orig Pub: Fisiol. mekhanismy likhoradochn. reakcii, L., Medgiz 1957, 14-25.

Abstract: No abstract.

Card 1/1

VESELKIN, P.N.

U.S.S.R. / Human and Animal Physiology. Thermoregulation.

Abs Jour: Ref Zhur-Biol., No 5, 1958, 22021.

: Vestelkin P. N. Author

Inst : Not given.

: Heat Regulation of the Bebrile Body and the Significance of Heat Production and Heat Loss Title .

in Body Temperature Elevation.

Orig Pub: Fisiol. mekhanismy likoradochn. reakcii, L.

Medgiz, 1957, 29-39.

Abstract: The febrile reaction (FR) is not conditioned

by disorder of the heat regulation mechanism. In overheating, the body increases its heat loss - while in FR there is a decrease of heat loss. The heat regulating mechanism

Card 1/2

31

U.S.S.R. / Human and Animal Physiology. Thermoregulation.

Abs Jour: Ref Zhur-Biol., No 5, 1958, 22021.

Abstract: preserves its ability to react to temperature changes in the external environment in the presence of Fr. There is no direct and constant relationship between the elevation of temperature and the intensity of the axidative processes in FR. The ratio of heat loss to heat production in FR is a function of the temperature of the external environment.

Card 2/2

U.S.S.R. / Human and Animal Physiology. Thermoregulation.

Abs Jour: Ref Zhur-Biol., No 5, 1958, 22025.

Author : Veselkin P.N., Zykina-Gramenitskaya E.S.

Inst : Not given.

Title : The Role of the Principle Vascular Reflexo-

genic Areas in the Development of Febrile Re-

actions.

Orig Pub: Fisiol mekhanismy liknoradochn reakcii, L.,

Medgiz, 1957, 125-134.

Abstract: The intravenous injection in rabbits of a cul-

ture of Baccilus Mesantericus failed to produce a Febrile Reaction (F.R.) following the bi-lateral resection of the sin-carotid areas of carotid arteries; the injection of the culture before the resection produced a noticeable elevation of body temperature. The rein-

Card 1/2

U.S.S.R. / Human and Animal Hysiology. Thermoregulation.

Abs Jour: Ref Zhur-Biol., No 5, 1958, 22025.

Abstract: jection of the culture 2-3 months after the resection again produced a F.R. Subsequently the two depressor nerves in the animals were sectioned in the neck. The injection of the culture one week later produced a weaker F.R. than prior to the section. Rabbits with resected sino-caotid areas, when injected subcutaneously with the culture during the period refractory to intravenous injection, developed a prolonged F.R. The sino carotid areas and depressor nerves play a definite role in the formation of F.R. in experimental intravenous injections of pyrogenic solutions; the exclusion of the receptor areas can be compensated.

Card 2/2

35

VESELKIN, P.N.

U.S.S.R. / Human and Animal Physiology. Thermoregulation.

Abs Jour: Ref Zhur-Biol., No 5, 1958, 22031.

Author : Vesrelkin, P.N.

Inst : Not given.

Title : The Biological Significance of Febrile Reaction

and Some Practical Considerations.

Orig Pub: Fisiol mekhanismy liknoradochn reakcii, L.,

medgiz, 1957, 333-342.

Abstract: Febrile reactions occur as a complex reflex

act. Consideration of any temperature elevation of the body as harmful is erroneous. Experimental research and clinical investigation show evidence of favorable effects of fever on the course and outcome in many diseases, part-

Card 1/3

42

AND A STATE OF THE PARTY OF THE

U.S.S.R. / Human and Animal Physiology. Thermoregulation.

Abs Jour: Ref Zhur-Biol., No 5, 1958, 22031.

Abstract: icularly in infections and toxemias. Fever favors the production of antibiotics and the establishment of immunity. The nature of the changes in the internal environment in fever cannot be identified with the effect of overheating, which in most cases negatively affects the course of experimental infections in animals. The basic biological significance of fever should be considered in conjunction with increased metabolism conditioned by higher tissue temperatures.

Fever is a philogenetically derived Typical Adaption reaction to infectious irritants

Card 2/3

U.S.S.R. / Human and Animal Physiology. Thermoregulation.

Abs Jour: Ref Zhur-Biol., No 5, 1958, 22031.

Abstract: under pathological conditions. The possibilities of therapeutic application of artificial
fever are far from being exhausted. Further
study of this important problem requires the
organisation of production of pyrogenic solutions of low toxicity.

Card 3/3

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43

VESELKIN, P.N.; SOROKIN, A.V.

Report on the meetings of the Society of Pathophysiologists of Leningrad City. Pat. fiziol. i eksp.terap. 6 no.6192-93 N-D*62 (MIRA 17:3)

VESELKIN, P.N.

Thermogenetic changes in infectious inflammatory states. Pat. fiziol. i eksp. terap 5 no.5:16-24 *61 (MIRA 17:4)

	N. P.N., professor Letter to the editor. Pat.fiziol. i eksp.terap. 1 no.4:64 J1-Ag '57. (MIRA 10:11)	
	1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR. (FEVER) (PARATYPHOID FEVER)	
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l village en		

When the temperature rises. Zdorov'e 3 no.9:14-15 8 '57. (MIRA 10:9)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR
(BCDY TEMPERATURE)

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859610011-9

	VESELE	IN. P.N.	
· · · · · · · · · · · · · · · · · · ·		Some problems in general pathology of heat regulation and heat exchange. Yest. AMN SSSR 12 no.4:61-71 '57. (MIRA 10:10) (BODY TEMPERATURE)	
	.*		
			٠.

VESELKIN, P.N.

Title

USSR/Human and Animal Physiology. Thermoregulation.

T-3

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55357.

: Vesyelkin, P. N. Author

Inst

: Biological Significance of Febrile Reactions.

Orig Pub: Arkhiv patologii, 1957, 19, No 1, 3-20.

bstract: In contradiction to the theory which defines fever (F) as a functional insufficiency of the thermoregulatory mechanism, and as an inability to decrease the body's temperature to normal, data and opinions are cited which favor the concept that the adaptive functions of the thermoregulatory mechanism remain untouched and are fully preserved at all times. Only in certain infectious diseases, during the late and final stages of such a disease which have to be con-

: 1/3 Card

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istration and incommental experiments and a properties of the comment of the comm

USSR/Huran and Animal Physiology. Thermoregulation.

T-3

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55357.

sidered its specific complication, insufficiency of the thermoregulatory mechanism may be observed. From the biological point of view, F is a specialized reaction of the thermoregulatory apparatus and is a strongly connected to the general reactivity of the body. The temperature increase in F is not invariably bound to the increase in gasecus interchange. An important factor here is the difference between F and simple hyperthermia, for in the latter the gaseous interchange grows in proportion to the increase in body temperature according to the Vant-Hoff Maxim, while in the case of F, the general level of oxidizing processes is limited by the high point of the increase in body temperature. In infectious processes and intoxications, F plays a positive role as it stimulates a number of defensive mechanisms, such as immuno-

Card : 2/3

USSR/Human and Animal Physiology. Thermoregulation.

T-3

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55357.

genesis, phagocytosis, the defensive functions of the liver and of other organs, the secretion of ACTH and of corticosterones. The increase in body temperature during heavy physical work presents an analogy to F. Also discussed here is the utilization of standardized pyrogens for purposes of therapy, applied side by side with hypothermia and hyperthermia.

Card: 3/3

24

VESTLEIN, P.N.					
	Definition of the concept 'disease'. Vest.AME SSSR 13 no.9:24-29 '58 (MIRA 11:10)				
	1. Ghlen-korrespondent AMM SSSR. (DISEASE, definition, (Rus))				

VESELKIN, P.N., prof.

Symposium on the physiology and pathology of heat exchange and thermal regulation. Vest. AMN SSSR 14 no.9:57-61 '59. (MIRA' 13:1)

1. Chlen-korrespondent AMN SSSR. (BODY TEMPERATURE)

VESELVIN P.N. prof.

"Inflammatory diseases of the female genitalia from the point of view of the theory of nervism" by A.E. Handel shtam. Reviewed by P.N. Veselkin. Sov.med. 23 no.6:152-153 Je 59. (MIRA 12:9)

1. Chlen-korrespondent AMN SSSR.
(GENERATIVE ORGANS, FEMALE--DISRASES)
(MANDEL: SHTAM, A.R.)

 KHARAUZOV, N.A., prof., glavnyy red.; MIKHAYLOV, V.P., prof., gamestitel glavnogo red.; BIRYUKOV, D.A., prof., otv.red.; AVETIKYAN, B.G., doktor biol.nauk, red.; ANICHKOV, N.N., akademik, red.; ANICHKOV, S.V., prof., red.; ARBUZOV, S.Ya., prof., red.; VESKLKIN, P.N., prof., red.; VOYNO-YASKHETSKIY, M.V., prof., red.; DANILOV, I.V., kand.biol.nauk, red.; ZHABOTINSKIY, Yu.M., prof., red.; ZHINKIN, L.N., prof., red.; IL'IN, V.S., red.; IOFFE, V.I., prof., red.; KARASIK, V.M., prof., red.; KUPALOV, P.S., prof., red.; MANIHA, A.A., kand.med.nauk, red.; NEYFAKH, S.A., doktor biol.nauk, red.; RIKKL', A.V., prof., red.; SVETLOV, P.G., prof., red.; SMORODIETSEV, A.A., prof., red.; CHISTOVICH, G.N., doktor med.nauk, red.; HESEDIN, I.K., tekhn. red.;

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1. Institut eksperimental noy meditsiny (direktor - chlen korrespondent AMN SSSR D.A.Biryukov) AMN SSSR, Leningrad.

LETAVET, A.A., prof., otv. red.; VESELKIN, P.N., prof., red.; KANDROR, I.S., prof., red.; KOYRANSKIY, B.B., prof., red.; MALYSHEVA, A.Ye., doktor med.nauk, red.; SLONIM, A.D., prof., [Physiology of heat exchange and the hygiene of industrial microclimate] Fiziologiia teploobmena i gigiena promyshlennogo mikroklimata. Moskva, 1961. 365 p.

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